# GOVERNMENT OF INDIA
# SPACE
# LOK SABHA

UNSTARRED QUESTION NO:1046
ANSWERED ON:07.03.2007
LAUNCHING OF SPACE SATELLITES
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**Will the Minister of SPACE be pleased to state:**

(a) the names of the Space Satellites launched by the country during the last five years along with their launching places;

(b) the number of satellites launched unsuccessfully and the reasons for their failure including the cost thereof;

(c) the rank/position of India in satellite launch system globally; and

(d) the steps taken by India to develop the launching system?

## Answer

MINISTER OF STATE IN THE PRIME MINISTER`S OFFICE (SHRI PRITHVIRAJ CHAVAN):

(a) The details of the satellites launched by the country during the last five years are as under:-

| Sl No. | Name of the Satellite | Launch Date | Launching Place |
|---|---|---|---|
| 1 | INSAT-3C | 24.1.2002 | French Guyana. |
| 2 | Kalpana-1 | 12.9.2002 | Sriharikota, India |
| 3 | INSAT-3A | 10.4.2003 | French Guyana |
| 4 | GSAT-2 | 8.5.2003 | Sriharikota, India |
| 5 | INSAT-3E | 28.9.2003 | French Guyana |
| 6 | IRS-P6 (RESOURCESAT-1) | 17.10.2003 | Sriharikota, India |
| 7 | EDUSAT | 20.9.2004 | Sriharikota, India |
| 8 | IRS-P5 (CARTOSAT-1) | 5.5.2005 | Sriharikota, India |
| 9 | HAMSAT | 5.5.2005 | Sriharikota, India |
| 10 | INSAT-4A | 22.12.2005 | French Guyana |
| 11 | INSAT-4C | 10.7.2006 | Sriharikota, India |
| 12 | CARTOSAT-2 | 10.1.2007 | Sriharikota, India |
| 13 | Space Capsule Recovery Experiment (SRE-1) | 10.1.2007 | Sriharikota, India |

(b) Amongst the above 13 launches, only one i.e. INSAT-4C on board GSLV- F02 on 10th July 2006 was unsuccessful. The reason for failure of the mission was identified as malfunctioning of one of the four strap-on stages of GSLV. The cost of INSAT-4C satellite was Rs. 96 crores and the cost of GSLV was Rs. 150 crores.

(c) India is one among the six nations in the world to develop satellites and have capability to launch them using its own rocket system.

(d) India is currently developing GSLV Mk III capable of launching 4 tonne class communication satellite into Geo-stationary orbit. Technology development initiatives have also been taken up in the area of advanced launch vehicle systems including Reusable Launch Vehicles.